



Arizona's Common Core Standards Mathematics

Summary of Changes Eighth Grade

ARIZONA DEPARTMENT OF EDUCATION
High Academic Standards for Students
State Board Approved June 2010
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Arizona's Common Core Summary of Changes- Mathematics-Eighth Grade

GRADE 8			
Removed	Moved to a Different Grade Level	Moved from another Grade Level	New Standards
M08-S2C1-04 (2008) Determine whether information is represented effectively and appropriately given a graph or a set of data by identifying sources of bias and compare and contrast the effectiveness of different representations of data.	M08-S1C1-01 (2008) Compare and order real numbers including very large and small integers, and decimals and fractions close to zero. MOVED to 6.NS.7	M06-S1C3-01 (2008) and M07-S1C3-01(2008) and M07-S1C3-03 (2008) and MHS-S1C3-01(2008) and MHS-S1C3-04 (2008) MOVED to 8.NS.2 Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value of expressions (e.g., π^2).	8.F.2 Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). <i>For example, given a linear function represented by a table of values and a linear function represented by an algebraic expression, determine which function has the greater rate of change.</i>
M08-S2C3-01 (2008) Represent, analyze, and solve counting problems with or without ordering and repetitions.	M08-S1C1-04 (2008) Model and solve problems involving absolute values. MOVED to 7.NS.1c	MHS-S1C2-03 (2008) and MHS-S1C2-01 (2008) MOVED to 8.EE.1 Know and apply the properties of integer exponents to generate equivalent numerical expressions.	
M08-S2C3-02 (2008) Solve counting problems and represent counting principles algebraically including factorial notation.	M08-S1C2-01 (2008) Solve problems with factors, multiples, divisibility or remainders, prime numbers, and composite numbers. MOVED to 6.NS.4	M06-S1C1-06 (2008) MOVED TO 8.EE.2 Use square root and cube root symbols to represent solutions to equations of the form $x^2 = p$ and $x^3 = p$, where p is a positive rational number. Evaluate square roots of small perfect squares and cube roots of small perfect cubes. Know that $\sqrt{2}$ is irrational.	

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M08-S2C4-01 (2008) Use directed graphs to solve problems.	M08-S1C2-02 (2008) Describe the effect of multiplying and dividing a rational number by <ul style="list-style-type: none"> a number less than zero, a number between zero and one, one, and a number greater than one. MOVED to 5.NF.5b	M07-S1C2-04 (2008) MOVED TO 8.EE.3 Use numbers expressed in the form of a single digit times an integer power of 10 to estimate very large or very small quantities, and to express how many times as much one is than the other.	
M08-S4C2-03 (2008) Identify lines of symmetry in plane figures or classify types of symmetries of 2-dimensional figures.	M08-S1C2-03 (2008) Solve problems involving percent increase, percent decrease, and simple interest rates. MOVED to 7.RP.3	MHS-S1C2-04 (2008) MOVED TO 8.EE.4 Perform operations with numbers expressed in scientific notation, including problems where both decimal and scientific notation are used. Use scientific notation and choose units of appropriate size for measurements of very large or very small quantities (e.g., use millimeters per year for seafloor spreading). Interpret scientific notation that has been generated by technology.	
M08-S4C4-01 (2008) Solve problems involving conversions within the same measurement system.	M08-S2C1-03 (2008) Describe how summary statistics relate to the shape of the distribution. MOVED to 7.SP.3	MHS-S4C3-07 (2008) MOVED TO 8.EE.8b Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection. <i>For example, $3x + 2y = 5$ and $3x + 2y = 6$ have no solution because $3x + 2y$ cannot simultaneously be 5 and 6.</i>	

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M08-S5C2-10 (2008) Solve logic problems involving multiple variables, conditional statements, conjectures, and negation using words, charts, and pictures.	M08-S2C1-05 (2008) Evaluate the design of an experiment. MOVED to 7.SP.2	M07-S4C2-01 (2008) MOVED TO 8.G.1 Verify experimentally the properties of rotations, reflections, and translations:	
	M08-S2C2-01 (2008) Determine theoretical and experimental conditional probabilities in compound probability experiments. MOVED to 7.SP.8a	M06-S4C2-01(2008) and M07-S4C2-01 (2008) and M07-S4C1-05 (2008) MOVED TO 8.G.2 Understand that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence of rotations, reflections, and translations; given two congruent figures, describe a sequence that exhibits the congruence between them.	
	M08-S2C2-02 (2008) Interpret probabilities within a given context and compare the outcome of an experiment to predictions made prior to performing the experiment. MOVED to 7.SP.7b	M06-S4C2-01 (2008) and M07-S4C2-01(2008) and MHS-S4C2-03(2008) and MHS-S4C2-04 (2008) MOVED TO 8.G.3 Describe the effect of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates.	

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	M08-S2C2-03 (2008) Use all possible outcomes (sample space) to determine the probability of dependent and independent events. MOVED to 7.SP.8b	M07-S4C2-01 (2008) and MHS-S4C2-03 (2008) and MHS-S4C2-04 (2008) MOVED TO 8.G.4 Understand that a two-dimensional figure is similar to another if the second can be obtained from the first by a sequence of rotations, reflections, translations, and dilations; given two similar two-dimensional figures, describe a sequence that exhibits the similarity between them.	
	M08-S3C3-02 (2008) Evaluate an expression containing variables by substituting rational numbers for the variables. MOVED to 6.EE.2c	M05-S4C1-02 (2008) and MHS-S4C1-06 (2008) MOVED TO 8.G.5 Use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when parallel lines are cut by a transversal, and the angle-angle criterion for similarity of triangles.	
	M08-S3C3-05 (2008) Graph an inequality on a number line. MOVED to 6.EE.8	MHS-S4C3-02 (2008) MOVED TO 8.G.8 Apply the Pythagorean Theorem to find the distance between two points in a coordinate system.	
	M08-S3C4-02 (2008) Solve problems involving simple rates. REDISTRIBUTED to 6.RP.3 a – d and 7.RP.1	M07-S2C1-01 (2008) and M07-S2C1-02 (2008) and M07-S2C1-03 (2008) MOVED to 8.SP.1	

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	M08-S4C1-01 (2008) Identify the attributes of circles: radius, diameter, chords, tangents, secants, inscribed angles, central angles, intercepted arcs, circumference, and area. MOVED to HS.G-C.2		
	M08-S4C1-02 (2008) Predict results of combining, subdividing, and changing shapes of plane figures and solids. MOVED to 7.G.3		
	M08-S4C3-01 (2008) Make and test a conjecture about how to find the midpoint between any two points in the coordinate plane. MOVED to HS.G-GPE.6		
	M08-S5C1-01 (2008) Create an algorithm to solve problems involving indirect measurements, using proportional reasoning, dimensional analysis, and the concepts of density and rate. MOVED to HS.N-Q.1		